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# PVC

Jameco Part Number 234413

## UL AWM Style 1007 300V, 80°C

(JQA-F-)
VW-1

### Product Description

Tinned copper, PVC insulated. Rated 80°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.

**300V, 80°C** (UL)

| Part No. | AWG (stranding) [sq.mm] (stranding in mm) | Insulation Thickness Inch | Insulation Thickness mm | Nominal OD Inch | Nominal OD mm | Standard Lengths Ft. | Standard Lengths m | Standard Unit Weight Lbs. | Standard Unit Weight kg | Stock Colors (See Color Codes Chart on Page 3.29) |
|---|---|---|---|---|---|---|---|---|---|---|
| **UL AWM Style 1007 • JQA-F-** | | | | | | | | | | |
| **9930** | 30 (7x38) | .015 | .38 | .044 | 1.12 | 100 | 30.5 | .2 | .1 | 1–5, 7–10, 13 |
| | | | | | | 1000 | 304.8 | 2.0 | .9 | 1–5, 7–10, 13 |

## UL and CSA Dual-Rated Wire

**UL AWM Style 1007 — 300V, 80°C**
(CSA Type TR-64, 90°C)

**UL AWM Style 1569 — 300V, 105°C**
(CSA Type TRSR-64, 105°C)

(JQA-F- [except 9989])
VW-1

### Product Description

Tinned copper, PVC insulated. Rated 105°C, 300V. Rated 600V peak for electronic circuits, and internal wiring of electronic and electrical equipment.

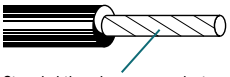
**Dual-Rated • 300V, 80°C and 300V, 105°C** (UL & CSA)

| Part No. | AWG (stranding) [sq.mm] (stranding in mm) | Insulation Thickness Inch | Insulation Thickness mm | Nominal OD Inch | Nominal OD mm | Standard Lengths Ft. | Standard Lengths m | Standard Unit Weight Lbs. | Standard Unit Weight kg | Stock Colors (See Color Codes Chart on Page 3.29) |
|---|---|---|---|---|---|---|---|---|---|---|
| **UL AWM Style 1007 and 1569 • CSA Types TR-64 and TRSR-64 • JQA-F-** | | | | | | | | | | |
| **9928** | 28 (7x36) | .015 | .38 | .047 | 1.19 | 100 | 30.5 | .2 | .1 | 1–5, 7, 9, 10, 13 |
| | | | | | | 1000 | 304.8 | 2.0 | .9 | 1–5, 7–10, 13 |
| | | | | | | 5000 | 1524.0 | 10.0 | 4.5 | 1–5, 7– 10, 13 |
| **9926** | 26 (7x34) | .015 | .38 | .051 | 1.30 | 100 | 30.5 | .2 | .1 | 1–5, 7–10, 13 |
| | | | | | | 1000 | 304.8 | 3.0 | 1.4 | 1–5, 7–10, 13 |
| | | | | | | 5000 | 1524.0 | 10.0 | 4.5 | 1–5, 7–10, 13 |
| **9923** | 24 (7x32) | .015 | .38 | .056 | 1.42 | 100 | 30.5 | .3 | .1 | 1–5, 7–10, 13 |
| | | | | | | 1000 | 304.8 | 4.0 | 1.8 | 1–5, 7–10, 13 |
| | | | | | | 5000 | 1524.0 | 15.0 | 6.8 | 1–5, 7–10, 13 |
| **9921** | 22 (7x30) | .015 | .38 | .062 | 1.57 | 100 | 30.5 | .4 | .2 | 1–10, 13 |
| | | | | | | 1000 | 304.8 | 5.0 | 2.3 | 1–10, 13 |
| | | | | | | 5000 | 1524.0 | 20.0 | 9.1 | 1–10, 13 |
| **9919** | 20 (7x28) | .015 | .38 | .069 | 1.75 | 100 | 30.5 | .7 | .3 | 1–5, 7–10, 13 |
| | | | | | | 1000 | 304.8 | 6.0 | 2.7 | 1–5, 7–10, 13 |
| **9920** | 20 (10x30) | .015 | .38 | .067 | 1.70 | 1000 | 304.8 | 6.0 | 2.7 | 1–10, 13 |
| | | | | | | 5000 | 1524.0 | 25.0 | 11.4 | 1–10, 13 |
| **9918** | 18 (16x30) | .015 | .38 | .079 | 2.01 | 100 | 30.5 | .9 | .4 | 1–10, 13 |
| | | | | | | 1000 | 304.8 | 8.0 | 3.6 | 1–10, 13 |
| | | | | | | 5000 | 1524.0 | 40.0 | 18.2 | 1–10, 13 |
| **9916** | 16 (26x30) | .015 | .38 | .092 | 2.34 | 100 | 30.5 | 1.3 | .6 | 1–5, 7–10, 13 |
| | | | | | | 1000 | 304.8 | 12.0 | 5.5 | 1–5, 7–10, 13 |
| | | | | | | 5000 | 1524.0 | 55.0 | 25.0 | 1–5, 7–10, 13 |
| **UL AWM Style 1569 • CSA Type TR-64 and TRSR-64** | | | | | | | | | | |
| **9989** | 14 (41x30) | .015 | .38 | .110 | 2.79 | 1000 | 304.8 | 17.0 | 7.7 | 1–5, 7–10, 13 |
| | | | | | | 5000 | 1524.0 | 85.0 | 38.6 | 1–5, 7–10, 13 |

## UL AWM Style 1007 300V, 80°C

(CSA Type TR-64, 90°C)
(JQA-F-)
VW-1

**Recommended maximum baking cycles:**
24 hours @ 300°F (149°C)



Stranded tinned copper conductor
(Uni-Strand®)

**300V, 80°C** (UL) • **300V, 90°C** (CSA)

| Part No. | AWG (stranding) [sq.mm] (stranding in mm) | Insulation Thickness Inch | Insulation Thickness mm | Nominal OD Inch | Nominal OD mm | Standard Lengths Ft. | Standard Lengths m | Standard Unit Weight Lbs. | Standard Unit Weight kg | Stock Colors (See Color Codes Chart on Page 3.29) |
|---|---|---|---|---|---|---|---|---|---|---|
| **UL AWM Style 1007 • CSA Type TR-64 • JQA-F-** | | | | | | | | | | |
| **32822** | 22 (7x30) [.36 (7x.25)] | .015 | .38 | .062 | 1.58 | 5000† | 1524.0 | 25.0 | 11.4 | 1–5, 7–9, 10, 13 |
| **32820** | 20 (7x28) [.56 (7x.32)] | .015 | .38 | .068 | 1.73 | 5000† | 1524.0 | 30.0 | 13.6 | 9, 10 |

†Spools may contain more than one piece. Length may vary ±10% from length shown.

# Technical Information

Insulation Characteristics
and Color Codes

### Table 1: Insulation Characteristics

| Insulation | Temperature Rating | UL Voltage Rating (Volts) | Oil Resistance | Ozone Resistance | Abrasion | Flame Resistance |
|---|---|---|---|---|---|---|
| **Neoprene** | 90°C | 300/600 | Good | Good | Good | Good |
| **PVC** | 80°C | 300 | Good–Excellent | Good–Excellent | Good | Excellent |
| | 105°C | 600 | Good–Excellent | Good–Excellent | Good | Excellent |
| **Hypalon®** | 105°C | 300/600 | Good | Excellent | Good | Good |
| **XL-Dur® Cross-Linked Polyethylene** | 105°C | 300 | Good | Good | Excellent | Fair-Good |
| | 125°C | 600 | Good | Good | Excellent | Fair-Good |
| | 150°C | 600 | Good | Good | Excellent | Fair-Good |
| **EPDM** | 125°C | 600 | Fair–Poor | Good | Good | Fair |
| | 150°C | 600 | Fair–Poor | Good | Good | Fair |
| **Silicone Rubber** | 150°C | 300 | Fair | Good | Poor | Good |
| | 200°C | 600 | Fair | Good | Poor | Good |
| **Silicone Rubber Glass Braid** | 150°C | 600 | Fair | Excellent | Excellent | Good |
| | 200°C | 600 | Fair | Excellent | Excellent | Good |
| **Teflon®** | 150°C | 300 | Excellent | Excellent | Excellent | Excellent |
| | 200°C | 300 | Excellent | Excellent | Excellent | Excellent |
| | 260°C | 300 | Excellent | Excellent | Excellent | Excellent |

### Table 2: Lead Wire Color Code Chart

| Color No. | Color Combination |
|---|---|
| **1** | Brown |
| **2** | Red |
| **3** | Orange |
| **4** | Yellow |
| **5** | Green |
| **6** | Light Blue |
| **7** | Violet |
| **8** | Gray (Slate) |
| **9** | White |
| **10** | Black |
| **11** | Tan |
| **12** | Pink |

| Color No. | Color Combination |
|---|---|
| **13** | Dark Blue |
| **14** | White/Black |
| **15** | White/Red |
| **16** | White/Green |
| **17** | White/Yellow |
| **18** | White/Blue |
| **19** | White/Brown |
| **20** | White/Orange |
| **21** | White/Gray |
| **22** | White/Violet |
| **23** | White/Black/Red |
| **24** | White/Black/Green |

| Color No. | Color Combination |
|---|---|
| **25** | White/Black/Yellow |
| **26** | White/Black/Blue |
| **27** | White/Black/Brown |
| **28** | White/Black/Orange |
| **29** | White/Black/Gray |
| **30** | White/Black/Violet |
| **189** | Green/Yellow |
| **620** | Green/min. 30% Yellow |
| **876** | Nickel Gray |
| **B02** | Purple |

**Non-Stock Colors:** Non-stock colors and stripes of catalog items are available in minimum quantities. Price and delivery information is available upon request. Orders must be in multiples of standard packages.



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